

## PERMANENT MAGNET ROTOR OF HERMETIC MOTOR FOR REFRIGERATION COMPRESSOR

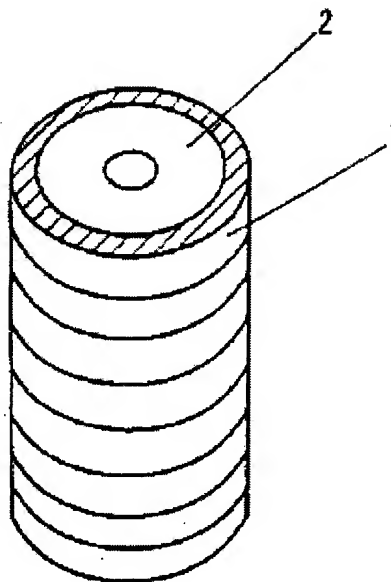
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### Abstract of JP63069450

**PURPOSE:** To obtain a permanent magnet rotor for a hermetic motor excellent in cost performance and capable of mass production, by forming a resin magnet of magnetic powder having a composition of  $R1-x(Fe_{1-y}, By)_x$  and with resin superb in refrigerant-tightness.

**CONSTITUTION:** As a concrete instance of  $R1-x(Fe_{1-y}, By)_x$ , composite alloy of  $Nd_{0.14}(Fe_{0.95}, B_{0.05})_{0.86}$  is dissolved and quenched flakes are fabricated by liquid quenching. Magnetic powder is then made available crushed into not larger than about 125  $\mu m$  in particle size. Proper additive is added to this magnetic powder, with which epoxy resin with oil absorptive function is mixed so as to be about 3 weight portion and kneaded to make resin magnet material. With a molding machine this material is molded into a definite shape and heated and hardened after taken out of a metallic mould. This resin magnet 1 is laminated in designated numbers and fixed to an iron core 2 with adhesive to fabricate a permanent magnet rotor.



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